

Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL

For FY 2009

Complete if Known



Applicant claims small entity status. See 37 CFR 1.27

| | |
|----------------------|------------------|
| Application Number | 10/588,135 |
| Filing Date | 7/31/2006 |
| First Named Inventor | Young-Nam Kim |
| Examiner Name | Nathan Schlientz |
| Art Unit | 1616 |
| Attorney Docket | 5038 - 061693 |

TOTAL AMOUNT OF PAYMENT (\$)

405

METHOD OF PAYMENT (check all that apply)



Check



Credit Card



Money Order



None



Other (please identify):



Deposit Account

Deposit Account Number:

23-0650

Deposit Account Name:

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)



Charge fee(s) indicated below



Charge fee(s) indicated below, except for the filing fee



Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17



Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

| Application Type | FILING FEES | | SEARCH FEES | | EXAMINATION FEES | | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
| | Fee (\$) | Small Entity Fee (\$) | Fee (\$) | Small Entity Fee (\$) | Fee (\$) | Small Entity Fee (\$) | |
| Utility | 330 | 82 | 540 | 270 | 220 | 110 | |
| Design | 220 | 110 | 100 | 50 | 140 | 70 | |
| Plant | 220 | 110 | 330 | 165 | 170 | 85 | |
| Reissue | 330 | 165 | 540 | 270 | 650 | 325 | |
| Provisional | 220 | 110 | 0 | 0 | 0 | 0 | |

2. EXCESS CLAIM FEES

Fee Description

Each claim over 20 (including Reissues)

Each independent claim over 3 (including Reissues)

Multiple dependent claims

| Fee (\$) | Small Entity Fee (\$) |
|----------|-----------------------|
| | Fee (\$) |
| 52 | 26 |
| 220 | 110 |
| 390 | 195 |

| Total Claims | - 20 or HP | = | Extra Claims | Fee (\$) | = | Fee Paid (\$) |
|--------------|------------|---|--------------|----------|---|---------------|
| 9 | - 29 | = | 0 | 0 | = | 0 |

HP = highest number of total claims paid for, if greater than 20.

| Multiple Dependent Claims | |
|---------------------------|---------------|
| Fee (\$) | Fee Paid (\$) |
| | |

| Indep. Claims | - 3 or HP | = | Extra Claims | Fee (\$) | = | Fee Paid (\$) |
|---------------|-----------|---|--------------|----------|---|---------------|
| 1 | - 3 | = | 0 | 0 | = | 0 |

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$270 (\$135 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
|--------------|--------------|--|----------|---------------|
| - 100 = | / 50 = | (round up to a whole number) x | = | |

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

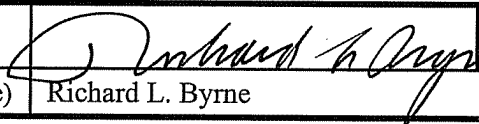
Other (e.g., late filing surcharge): RCE

Fees Paid (\$)

\$405

SUBMITTED BY

Signature


Richard L. Byrne

Registration No.

(Attorney/Agent) 28,498

Telephone 412-471-8815

Name (Print/Type)

Date September 10, 2009